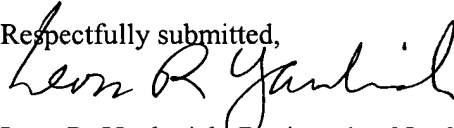


Specifically, Applicants have submitted a substitute Computer Readable Form (CRF) and a substitute paper copy of the Sequence Listing as provided under 37 C.F.R. §1.825, and the substitute Sequence Listing and CRF cure the error listed in the CRF Problem Report attached to the Notice. The computer disk was unreadable. No subject matter not included in the original specification as filed has been added. The Substitute Sequence Listing submitted herewith deletes some repeated sequences discovered in the Sequence Listing submitted April 19, 2002 while curing the problem detected in the originally submitted CRF. The deleted sequences eliminate an inadvertant editorial error and do not add new matter.

As required under 37 C.F.R. §1.825(b) and §1.821(d), Applicants provide herewith a substitute CRF in accordance with the requirements of 37 C.F.R. §1.824. Applicants further state as required under 37 C.F.R. §1.821(f) and (g) that the paper copy and computer readable form of the Substitute Sequence Listing submitted herewith are identical in content and contain no new matter.

In view of the foregoing amendments and remarks, Applicants believe that their application is in compliance with the requirements for patent applications containing nucleotide sequence and/or amino acid sequence disclosures, and is in condition for allowance. Examination of the present application on the merits and allowance of the pending claims are, therefore, respectfully requested.

Respectfully submitted,



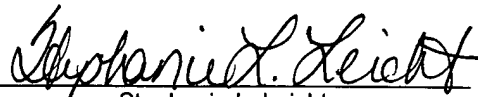
Leon R. Yankwich, Registration No. 30,237
Attorney for Applicants
YANKWICH & ASSOCIATES
130 Bishop Allen Drive
Cambridge, Massachusetts 02139
telephone: (617) 491-4343
telefax: (617) 491-8801

CERTIFICATE OF MAILING

The undersigned hereby certifies that this correspondence is being deposited with the U.S. Postal Service as "Express Mail Post Office to Addressee" Service under 37 CFR § 1.10, postage prepaid, Express Mailing Label No. EL 378886630 US, in an envelope addressed to the U. S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202 on the date indicated below.

June 28, 2002

date of mailing and signature



Stephanie L. Leicht